

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478578

Luminaire Tested: **IFLD-L-SA8C-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

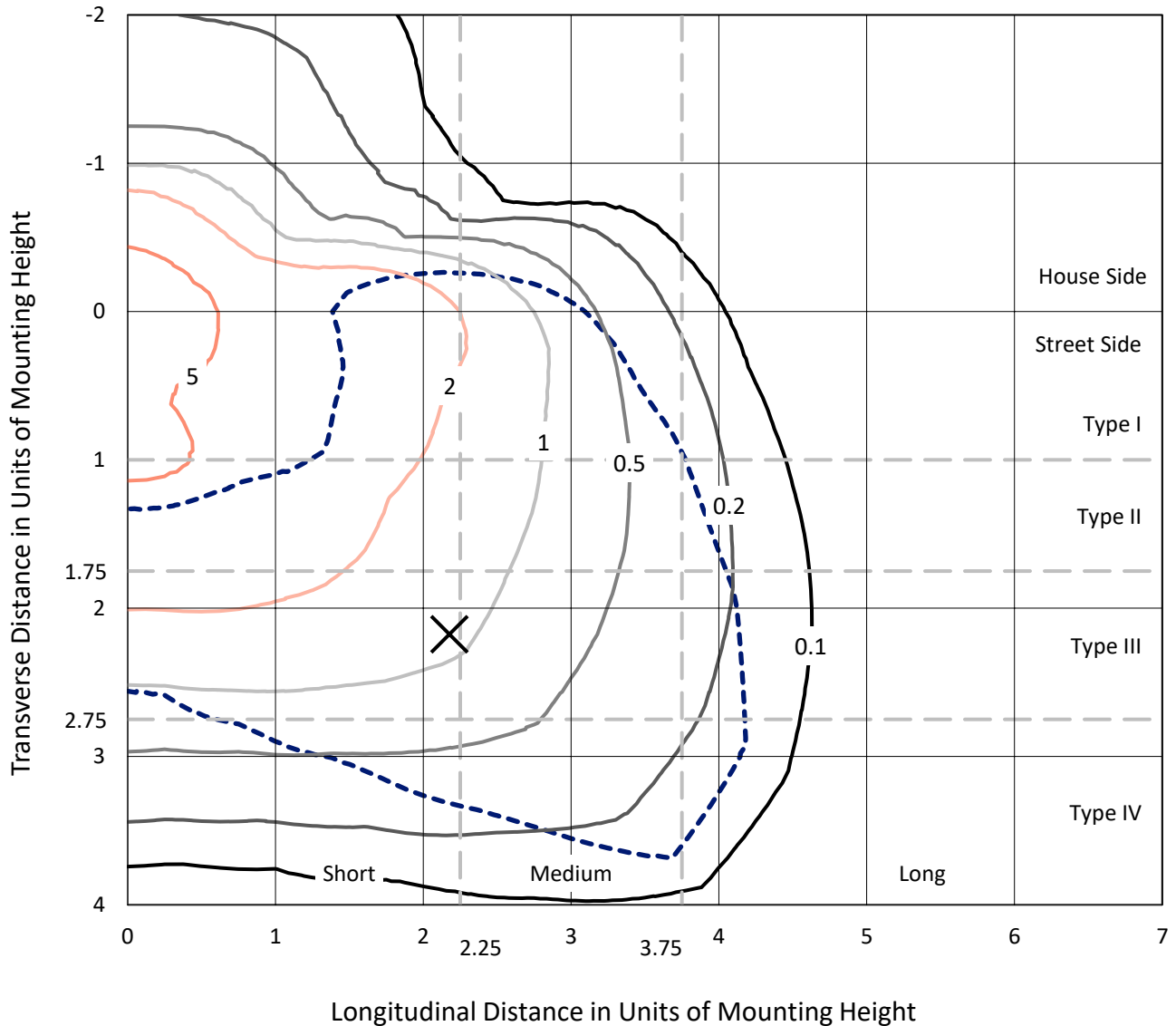
Lumens per Lamp: N/A
Luminaire Lumens: 51210.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P478578
 CATALOG NUMBER: IFLD-L-SA8C-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

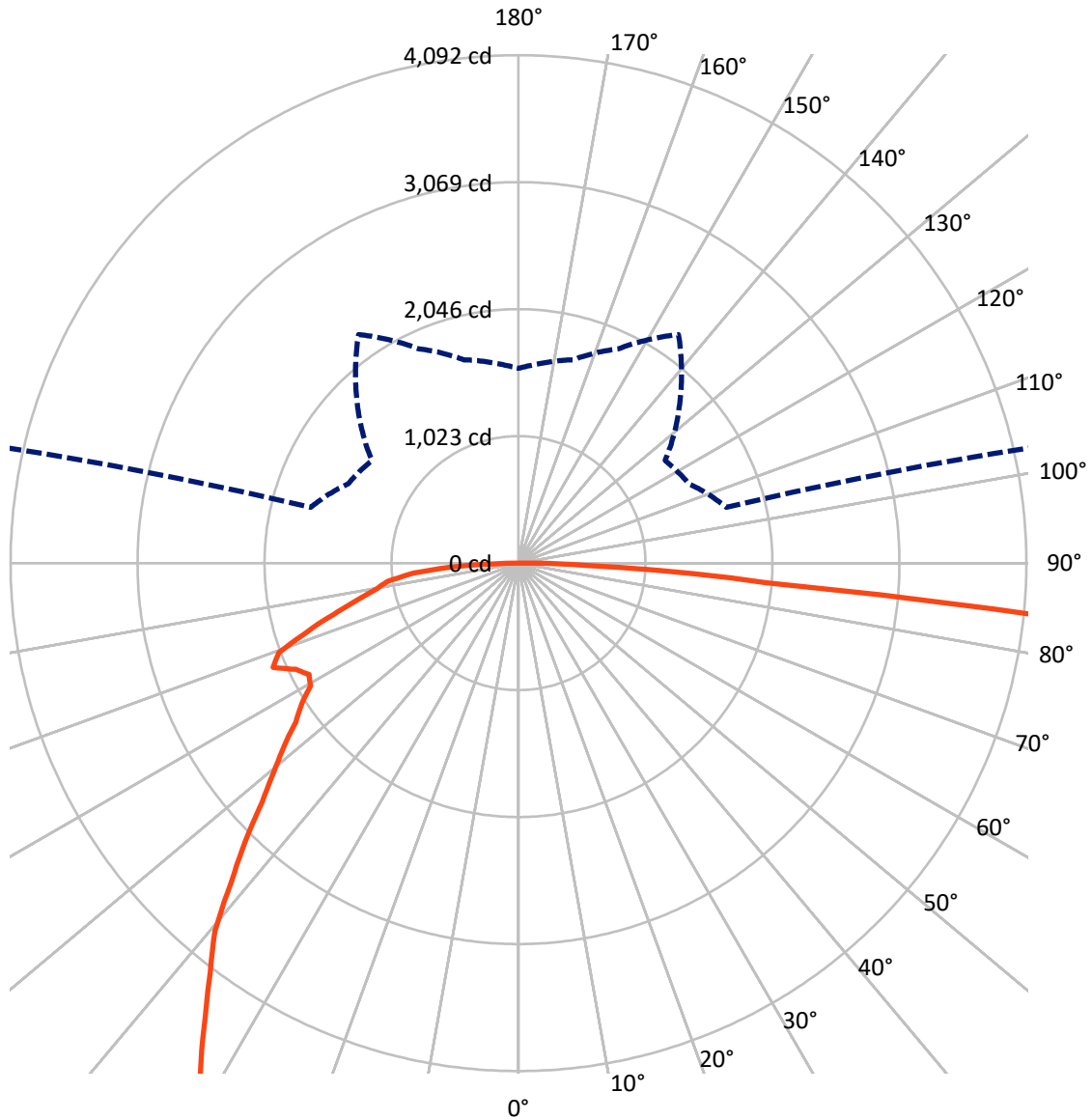
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P478578
CATALOG NUMBER: IFLD-L-SA8C-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478578

CATALOG NUMBER: IFLD-L-SA8C-740-U-T4W

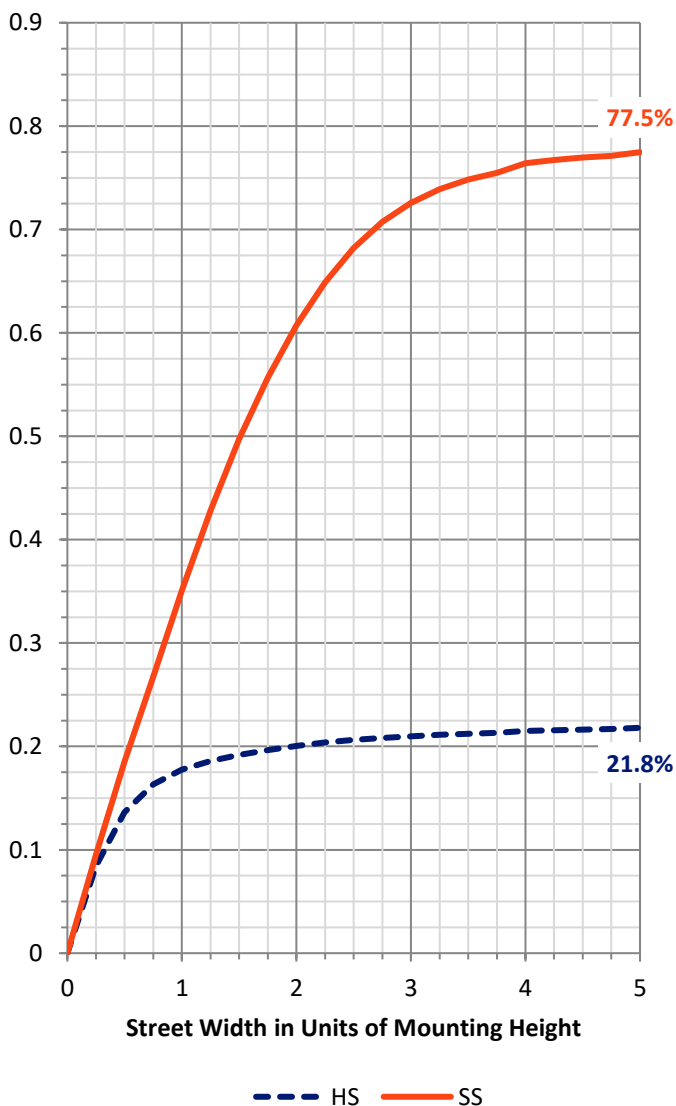
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11399.7	0.0	11399.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	39810.4	0.0	39810.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	51210.1	0.0	51210.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	1.1
10°-20°	1795.4	3.5
20°-30°	3032.0	5.9
30°-40°	4195.8	8.2
40°-50°	6001.7	11.7
50°-60°	9680.0	18.9
60°-70°	14276.7	27.9
70°-80°	10367.3	20.2
80°-90°	1321.6	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51210.1	100.0
0°-180°	51210.1	100.0

Coefficient of Utilization



REPORT NUMBER: P478578

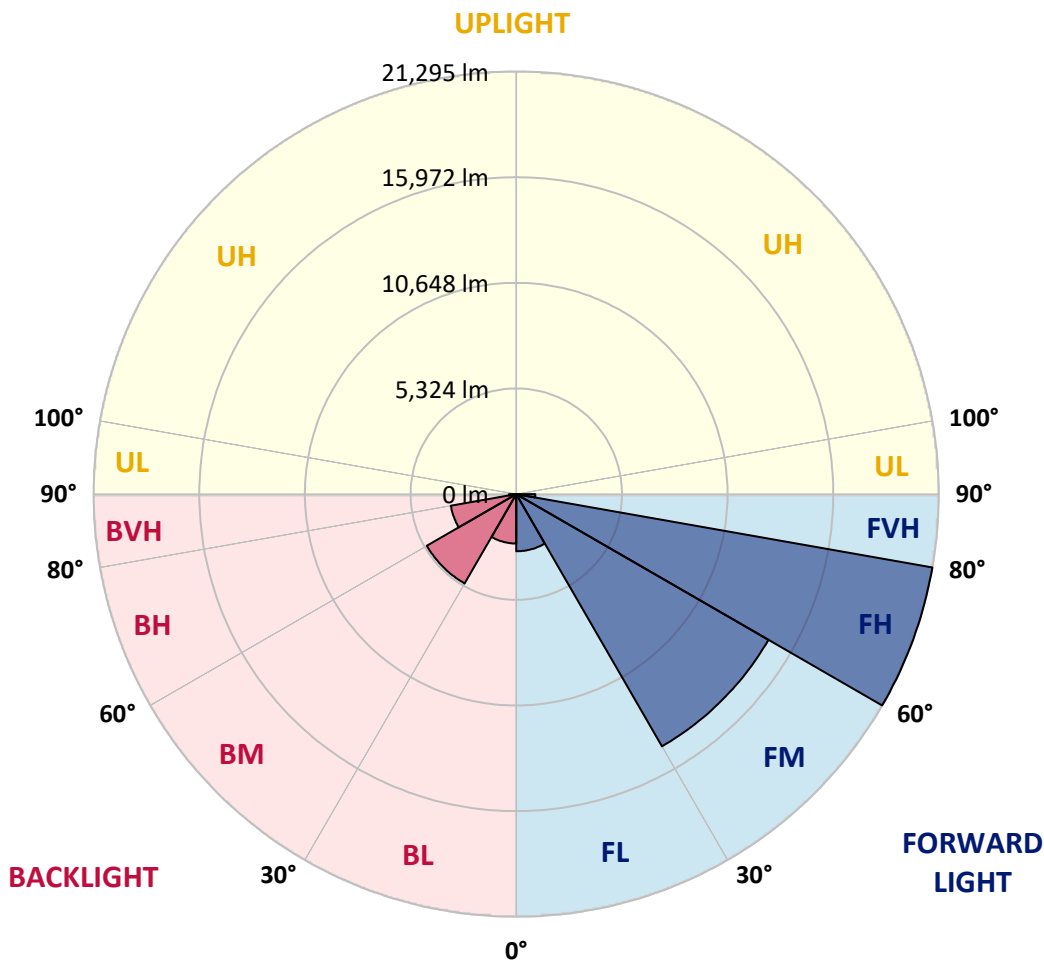
CATALOG NUMBER: IFLD-L-SA8C-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.0	5.6			
FM (30°-60°)	14675.0	28.7			
FH (60°-80°)	21295.5	41.6			G5
FVH (80°-90°)	961.9	1.9			G5
BL (0°-30°)	2489.0	4.9	B3/2500		
BM (30°-60°)	5202.5	10.2	B4/8500		
BH (60°-80°)	3348.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	359.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P478578
 CATALOG NUMBER: IFLD-L-SA8C-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7
2.5°	5555.3	5588.5	5555.3	5549.8	5494.6	5455.9	5489.1	5439.4	5384.2	5362.1	5312.4
5°	6063.4	6068.9	6008.2	6013.7	5897.7	5776.2	5798.3	5649.2	5489.1	5428.3	5328.9
7.5°	6582.5	6521.7	6433.4	6405.8	6223.5	6091.0	6074.4	5941.9	5693.4	5555.3	5417.3
10°	6919.3	6941.4	6797.8	6676.4	6521.7	6361.6	6356.1	6107.6	5964.0	5759.7	5583.0
12.5°	7217.5	7223.1	7101.6	6908.3	6715.0	6516.2	6543.8	6433.4	6190.4	5997.1	5820.4
15°	7449.5	7416.3	7283.8	7107.1	6902.8	6748.1	6731.6	6637.7	6433.4	6273.2	5980.6
17.5°	7515.7	7499.2	7366.6	7178.9	6980.1	6864.1	6908.3	6753.7	6670.8	6527.3	6245.6
20°	7388.7	7350.1	7328.0	7118.1	6974.6	6963.5	6924.9	6958.0	6819.9	6687.4	6483.1
22.5°	7156.8	7140.2	7129.2	6963.5	6897.2	6946.9	7013.2	7062.9	7040.8	6913.8	6681.9
25°	6919.3	6996.6	6924.9	6847.5	6941.4	7068.4	7051.9	7212.0	7212.0	7173.4	6980.1
27.5°	7085.0	7035.3	6980.1	6941.4	6974.6	7173.4	7162.3	7355.6	7427.4	7355.6	7134.7
30°	7499.2	7449.5	7289.3	7118.1	7074.0	7289.3	7344.5	7515.7	7548.9	7372.2	7184.4
32.5°	8277.8	8250.2	7996.2	7493.6	7223.1	7344.5	7372.2	7565.4	7537.8	7427.4	7350.1
35°	9431.9	9338.1	8984.6	8134.2	7537.8	7416.3	7344.5	7499.2	7604.1	7548.9	7477.1
37.5°	10696.5	10591.6	10155.4	9078.5	8106.6	7609.6	7554.4	7681.4	7802.9	7775.3	7626.2
40°	11905.9	11905.9	11513.8	10260.3	8951.5	8079.0	8090.0	7946.5	8056.9	8007.2	8034.8
42.5°	13098.7	13054.5	12894.4	11646.4	9857.2	8863.2	8686.4	8327.5	8526.3	8509.7	8548.4
45°	14308.1	14274.9	14230.7	12938.5	11154.9	9923.4	9829.5	9183.4	9365.7	9288.4	9454.0
47.5°	15274.4	15313.1	15313.1	14379.8	12541.0	11337.1	11199.1	10177.4	10525.3	10564.0	10602.7
50°	16097.3	16113.8	16097.3	15754.9	14087.2	12955.1	12673.5	11635.3	11983.2	12286.9	12640.4
52.5°	17234.8	17256.9	17179.6	17047.1	16185.6	14656.0	14341.2	13187.0	13899.4	14219.7	14854.8
55°	18637.5	18471.8	18328.2	18427.6	18201.2	16528.0	16202.2	14788.5	15859.8	16285.0	17555.1
57.5°	18897.0	19040.6	19405.1	20194.7	20520.6	18350.3	18162.6	16754.4	18074.2	18444.2	20564.7
60°	19813.7	19576.3	20470.9	22182.7	22547.2	20724.9	20531.6	18908.1	20277.6	20664.1	23342.4
62.5°	20415.6	20404.6	21729.9	23762.1	24590.4	23187.8	22795.7	21707.8	22657.6	23033.2	26368.6
65°	20238.9	20399.1	22751.5	24689.8	26296.8	25987.5	25761.1	24115.5	25369.1	25335.9	28340.0
67.5°	18626.4	19079.3	22105.4	25358.0	28837.0	29400.3	29328.5	27500.6	27572.4	26871.1	29218.0
70°	16389.9	16235.3	19371.9	24662.2	30107.1	33448.1	33431.5	30018.8	29554.9	27208.0	26699.9
72°	12590.7	12419.5	14998.3	21177.7	29438.9	35066.1	35563.1	31763.8	29532.8	25810.8	22055.7
72.5°	11431.0	11281.9	13849.7	19935.2	28699.0	35485.8	35253.8	31830.0	29300.9	25153.7	20603.4
75°	5262.7	5091.5	6919.3	12204.1	22387.1	31443.5	32233.2	29786.8	25589.9	20023.6	12342.2
77.5°	1568.3	1518.6	2225.5	4925.8	13010.3	23165.7	23469.4	22475.4	17864.4	10967.1	4577.9
80°	872.5	878.0	1148.6	1844.4	5721.0	13391.4	14484.8	13882.8	8763.8	3622.6	1524.1
82.5°	486.0	513.6	717.9	1093.4	2628.6	6146.2	6615.6	6378.2	3169.8	1700.8	833.9
85°	254.0	265.1	375.5	585.4	1491.0	1943.8	1999.0	2142.6	1645.6	1159.7	447.3
87.5°	99.4	99.4	138.1	243.0	552.2	601.9	541.2	657.1	944.3	751.0	220.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: IFLD-L-SA8C-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7
2.5°	5356.5	5312.4	5306.8	5235.1	5257.1	5196.4	5201.9	5190.9	5196.4	5185.4	5157.7
5°	5328.9	5295.8	5201.9	5262.7	5207.4	5284.8	5345.5	5323.4	5340.0	5334.5	5340.0
7.5°	5367.6	5323.4	5312.4	5279.2	5328.9	5362.1	5411.8	5549.8	5538.8	5555.3	5588.5
10°	5483.6	5433.9	5400.7	5450.4	5422.8	5527.7	5583.0	5654.7	5781.8	5787.3	5721.0
12.5°	5710.0	5676.8	5610.6	5621.6	5715.5	5748.6	5781.8	5825.9	5908.8	5892.2	5952.9
15°	5969.5	5897.7	5859.1	5848.0	5870.1	5908.8	5903.2	5947.4	5991.6	6030.3	6013.7
17.5°	6157.3	6063.4	6074.4	6129.7	6124.1	6113.1	6041.3	6019.2	6041.3	6063.4	6052.3
20°	6350.5	6361.6	6278.8	6229.1	6207.0	6096.5	6041.3	5975.0	5908.8	5941.9	5991.6
22.5°	6593.5	6543.8	6422.3	6273.2	6162.8	6096.5	5925.3	5809.4	5809.4	5842.5	5825.9
25°	6869.6	6764.7	6554.9	6284.3	6146.2	5864.6	5743.1	5726.5	5682.4	5732.1	5754.1
27.5°	7085.0	6991.1	6704.0	6245.6	5864.6	5638.2	5566.4	5544.3	5616.1	5621.6	5710.0
30°	7173.4	7145.7	6726.1	6146.2	5577.4	5213.0	5168.8	5268.2	5345.5	5461.5	5467.0
32.5°	7289.3	7300.4	6759.2	5914.3	5201.9	4837.5	4771.2	4892.7	5113.6	5207.4	5279.2
35°	7482.6	7537.8	6731.6	5627.1	4804.3	4456.4	4445.4	4478.5	4693.9	4859.5	4953.4
37.5°	7819.5	7808.4	6726.1	5284.8	4489.6	4125.1	4036.7	4047.8	4191.4	4329.4	4312.8
40°	8272.3	8228.1	6709.5	4837.5	4080.9	3843.5	3694.4	3639.1	3628.1	3589.4	3600.5
42.5°	8890.8	8802.4	6704.0	4384.6	3710.9	3456.9	3352.0	3208.4	3103.5	2904.7	2915.7
45°	9752.2	9597.6	6560.4	3959.4	3346.5	3136.6	2976.5	2871.6	2645.1	2396.6	2396.6
47.5°	11083.1	10580.6	6565.9	3490.0	2993.0	2821.9	2711.4	2529.2	2286.2	2087.4	2065.3
50°	13043.5	11894.9	6378.2	3120.1	2705.9	2589.9	2474.0	2264.1	2032.2	1894.1	1910.7
52.5°	15572.6	13855.2	6372.6	2788.7	2479.5	2396.6	2269.6	2081.9	1910.7	1822.3	1789.2
55°	18587.8	16450.7	6571.4	2518.1	2247.5	2203.4	2148.1	1993.5	1827.9	1750.5	1745.0
57.5°	21674.7	18985.4	6891.7	2324.9	2048.7	2081.9	2043.2	1921.7	1789.2	1700.8	1689.8
60°	24419.2	20995.5	6245.6	2092.9	1872.0	1943.8	1999.0	1894.1	1822.3	1816.8	1778.2
62.5°	26490.1	21856.9	4749.1	1916.2	1778.2	1910.7	2059.8	2126.1	2092.9	2137.1	2142.6
65°	27246.6	21337.8	3269.2	1822.3	1706.4	1988.0	2319.3	2297.2	2104.0	2021.1	2065.3
67.5°	26186.3	19233.9	2424.3	1711.9	1656.7	2148.1	2468.4	2192.3	1899.6	1888.6	1855.5
70°	22519.6	16301.6	1977.0	1595.9	1573.8	2059.8	2402.2	2032.2	1789.2	1717.4	1684.3
72°	17941.7	12695.6	1734.0	1513.1	1441.3	1838.9	2247.5	1905.2	1695.3	1607.0	1568.3
72.5°	16378.9	11767.8	1700.8	1474.4	1413.7	1789.2	2170.2	1866.5	1673.2	1595.9	1535.2
75°	8984.6	6024.7	1496.5	1352.9	1192.8	1546.2	2010.1	1750.5	1579.4	1468.9	1457.9
77.5°	3340.9	2335.9	1292.2	1198.3	1032.7	1336.4	1827.9	1662.2	1435.8	1297.7	1270.1
80°	1281.2	1231.5	1054.7	1010.6	867.0	1170.7	1684.3	1491.0	1220.4	1082.4	1038.2
82.5°	778.6	717.9	800.7	789.7	662.7	1065.8	1584.9	1397.1	1082.4	878.0	850.4
85°	425.2	425.2	557.7	535.7	463.9	850.4	1198.3	927.7	684.8	563.3	574.3
87.5°	187.8	220.9	298.2	281.6	254.0	480.4	585.4	491.5	342.4	231.9	248.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)